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XIX.-On Lamellicorn Coleoptera from Portugnese West Africa, with Descriptions of new Species. By Gilbert J. Arrow.
'I'he British Museum collection contains a considerable number of interesting Coleoptera from the little-known region of Angola and the interior of Portuguese West Africa. A few of the Lamellicornia are here described, together with a new genus and some observations on species previously known.

## Copridæ.

Copris draco, sp. n.
C. Elphenori et C. Anceo affinis, sed multo major, clspeo fero integro, elytris politis, leviter punctato-striatis; maris capite cornu valido curcato, dimidio superiore intus utrinque perspicue serrato, thorace rugoso, medio multo elevato, utrinque excarato et lateraliter lamina maxima alæiformi predito; feeminæ capite cornu magno bifido, ramis retro curratis, spatium includentibus fere ad caput æquali, prothorace medio paulo elerato, lateribus minute carinatis.
Long. 29-32 mm.
Ilub. Bihe.

This is the largest and most remakably accoutred species of its large genus yet known. It is allied to C. Elphenor, Klug, and C. Anceus, Oliv., and represents in its armature a great development of that type. The clypeus is relatively a little less wide than in those species and almost uninterruptedly curved. It is narrower in the male than in the female and the thorax is correspondingly contracted in front. In both sexes the head bears a horn, but without any similarity between the two. 'That of the male is over 20 mm . long in our specimen, compressed laterally so as to be rectangular in section for most of its length, but beyond the middle it is hollowed out on its imner face and the edges of the channel are strongly dentite. The horn of the female las the form of a erescent attruch by a short footstill to the front of the


Comis draco, of and o, nat. size.
heal. The two extremities are about 8 mm . apart in our examples and the footstalk about 3 mm . long. The thorax in both sexes is coarsely rugose except for a small median posterior area, which is moderately punctured. In the male this median part is strongly homped and divided in front, where it terminates in three obliquely placed teeth on each side. The lateral margin in the same sex is furnished at the middle with a large leaf-like or wing-like process, curving
upwards and forwards and tapering to a point. Immediately behind this the thoracic margin is deeply excised, and between the wing-like processes and the dorsal hump are deep and very ruguse exeavations. In the female the lateral processes are very slightly and the dorsal hump rather more strongly indicated. In other respect, the sexes are alike. The elytra are highly polished, with feebly punctured strixe, and the pygidium is thinly and shallowly but uniformly practured.

## Catharsius peregrinus, Harold.

We have received this very peculiar species from lihe and Sim Salvador. It is remarkable for its depressed form, elongate clypens, and the proportionately small development of its hind body.

## Gymnopleurus azureus, Fabr:

Specimens from Bihe, agrecing with the description of G. olicaceus, Quel., seem to belong to this widely distributed F'abrician species. Gr. insidiosus, Péring., is, I believe, also inseparable fiom it.

## Copturrinu angolensis, sp. 11 .

Nigra, opaca, sat conrexa, capite crebre rugoso, clypeo lidentato, dentibus paulo productis; prothorace crebre punctato-rugoso, postice elerato, parte elevata levitor 4 -acmminata, lateribus subtiliter marginatis, regulariter arcuatis, antice palo divergentibus; elytris deuse punctatis, subtilissime striatis, lateribus pone humeros sinuatis.
Long. $12-16 \mathrm{~mm}$.
Hab. Huilla (Wéluitsch).
This species is very closely related to C'. auspicata, Péring., with which it almost exactly agrees in size, sculpture, and general form. The prothorax, however, is slightly different in shape. In the male of C. auspicatu it is broadest behind, the sides slightly approximating anteriorly in a sinuous line. In the new species, on the contrary, there is a slight widening towards the front and the sides are uniformly curved. The raised margin is estremely narrow, and not, as in the other species, widened at its posterior part. 'The dorsal elevation does not extend quite so far forward, and exlibits four angulations, the slight outer ones being entirely absent in C. auspicata. This difference is traceable also in the females.

## Aphodiidæ.

Notocaulus laticollis, sp. 11 .
liceo-niger, opacus, capito antice lævi, obtuse bidentato, fronto longitudinaliter tricarinata, carina media abbreviata, posticeque bituberculata, rertice crebre punctulato; prothorace transrerso, earinis tribus integris duobusque lateralibus pone medium evanescentibus, angulis anticis obtusis, postieis rectis, lateribus valde irregularibus, interstitiis duobus interioribus grosse irregulariter punctatis, exterioribus leviter punctulatis; utroque elstro fortiter tricarinato, interstitiis læribus, bistriatis, striis subtiliter punctatis ; abdomine grosse varioloso.
long. 4.5 mm .
Hab. Huilla (ITelwitsch).
The unique specimen of this species is rather larger than the type of $N$. nigropiceus, Qued., in M. Oberthür's collection, with which I have kindly been enabled to compare it. Its thorax is relatively rather shorter and much less constricted in front. The front angles in that form are very prominent, but in N. laticollis they are truncated and so each replaced by two oltuse angles. The front margin is thickened at each end for a short distance, and at each end of the posterior margin a right angle is formed by a curved longitudinal carina about half the length of the thorax. The broad lateral flange vanishes at about the middle of this carina. In $N$. nigropiceus the posterior carina is continued until it meets the anterior carina, and the outer flange is narrower and more sinuated. The two median thoracic interspaces are coarsely punctured, but scarcely so coarsely as in the allied species, and the outer spaces, which in that are almost smooth, are rather sparsely pitted. There are three strong carinæ on each elytron, each bordered by finely punctured strix. The six-jointed abdomen is very coarsely pitted, but less coarsely than in $N$. nigropiceus.

## Hybosoridæ.

## Phooochrous dispar, Qued.

Both sexes of this remarkable species, of which the elytra of the female are shining and those of the male sooty, were brought from Garenganze.

The imperfect female specimen of unknown origin called Silphodes dubia by Westwood nearly resembles the female of $I$. dispar, but is rather smaller, the sides of the prothorax are rather more curved and the punctures upon its disk rather lesis fine.

## Melolonthidæ.

ARAOHOPLIL, gen. nov.
Corpus gracile, paulo depressum. Clypeus planus, lateribus rectis, panlo convergentibus, antice abrupte productis, virguliformibus. Labium omnino corneum, augustum. Palpi robnsti, longi. Antenne 9-articulatæ. I'edes longi, tibiis posticis (maris preccipue) intlatis. Ungues pedum 4 anteriorum duplici, fissi, pedum 2 posticorum unici, integri.
'Type, "Pachycuemu" Dekindti, Nonfrisel.
Both sexes of this very peculiar insect were collected by Dr. Welwitsch at Inilla. Herr Nonfried appears to have described the species from the male alone, the female having the hind tibia only slightly swollen and the single hind claw of normal size. 'The form of the hind tibia evidently led him to place it in Pachycnema, with which it has really no near relationship. Whereas that genns is the type of the suctorial division of the Hopliine with membranous ligula, Arcohoplia belongs to the true Hoplinar, distinguished by entirely horny mouth-organs of the usual biting type. Its most remarkable feature is the form of the clypeus, the outer margins of which are drawn out into long straight compressed rods, as in the Cetoniid genus Gimuthocera.

## Rutelidæ.

Anomale cerea, sp. 11 .
Elongata, robusta, testacea, clypeo. tibiis posticis, anticorum marginibus extornis tarsisque omnibus piceis; capite sat fortiter punctato, elypeo brevi, rugoso, margine valde reflexo, nigro; prothorace subtilissime haud crebre punctato, lateribus leviter arcuatis, haud angulatis, antice approximatis ; scutello lato, vix angulato, subtiliter punctato; elytris haud costatis, lærissime punctatis, punctis plerumque irregularibus, seriebus + geminatis ordinatis : pygidio modice punctato ; pectore pedibus;ue sat longo fulro-hirtis; abdomine nitido, parum punctato; unguibus majoribus pedum anticorum, fœminæque pedum mediorum tissis.
Long. $15-18 \mathrm{~mm}$.
Hab. Bihe, Garenganze, Bembe.
This is another member of the African group of Anomale, pale in colour, with darker tarsi and tibia, in which the male has the larger claw of the front foot only cleft and the female those of the front and middle feet. The other species of the group are A. immatura, Boh., clypeata, Arr., transvalensis, Arr., Distanti, Arr., ustulatipes, Fairm. (= rufu, Kolbe, intrusu,

Pér.), pinguis, Pér., zambesicola, Pér., repensa, Pér., and denuda, Air. A. cerea is the largest and most stoutly built of them all, the female being rather larger and more robust than the male and the puncturation rather stronger.

From specimens in our collection I believe Mr. Péringuey las been misled in recording the claw-structure of $A$. repensa and intrusa, an occurrence which is very liable to happen, as specimens abnormal in this respect are not uncommon. In this way I was myself misled into describing the claws of Nongoma calcarata, Arr., as differing sexually, whereas they are normally alike.

## Anomala funelris, sp. 1 .

Nigra, capite, prothorace (margine postico angulisque posticis exceptis) et pedibus (femoribus posticis tarsisque omnibus exceptis) læto flavis; pygidio rel rufo-flaro rel fusco, medio pallidiore ; capite dense, fere rugose, punctato, clypeo breci, margine antico recto ; prothorace nitido, subtiliter late punctato, lateribus sat regulariter arcuatis, margine postico leviter trisinuato ; scutello lato, fere semicirculari, laxe irregulariter punctato ; elytris nitidis, irregulariter punctatis, costis parum perspicuis; pygidio crebre trausrersim rugoso-punctato; pectore fusco, fulso-hirto.
\%. 'Tibiis anticis latis, bidentatis, pedum 4 anteriorum unguc majore fisso.
Long. $15-16 \mathrm{~mm}$.
Hab. Garenganze, Bihe.
Seven specimens of this species are all males. In the absence of the other sex I should have refrained from describing it, but for its very well-marked and unusual colouring. The head and thorax are bright yellow, except for the hind margin and a roughly triangular patch in each liind angle of the latter, which are black. The elytra are entirely jet-black and shining, their surface rather thickly punctured. There are no strix, but some of the punctures form quite indistinct series. The pygidium is closely and aciculately punctured, reddish testaccous, and generally more or less infuscate at the sides.

## Nannopopillia Damarce, Ohaus.

A good series of a very variable inseet, which I identify with Dr. Ohatus's Damaraland form, was brought from Huilla by Dr. Welwitseh. Only a few of them show the type of coloming described by Dr. Ohams, in which there is a large yellow stripe upon each elytron. The greater number have
the elytra testaccons, but slightly paler in the middle, with the suture black and a tendency to a darkening round the scutellum. 'There is also a variety (mate) in which the elytra are entirely black, and no doubt all intermediates occur. The notable disparity in breadth between the sexes given by Dr. Ohans is not confirmed by our larger series, nor is there a sexual difference in the thickness of the hairy clothing. The latter is scarcely eloser at the sides of the segments, as stated by Dr. Ohaus.

## Dynastidæ.

## I'ycnoschema nigra, sp. n.

Modice conrexa, nigra, supra sat grosse punctata, subtus rufo-hirta, capite ante oculos utrinque acuto angulato.
Long. 13-15.5 mm.
ठ. C'apite impresso, grosse punctato, cornu gracile armato ; prothorace transrerso, conreso, tequaliter punctato, antice paulo excarato, postice levissime longitudinaliter impresso, lateribus fortiter, fere wequaliter arcuatis, margine posteriore utrinque profunde impresso; scutello minute punctulato; elytris linea impressa suturali, punctis grossis parum profundis aliisque minutis interspersis; pygidio ralde convexo, glabro, basi et lateribus subtiliter puuctato-rugoso.
q. Capite grosse punctato-rugoso, carina transversa medio magis elerata armato ; prothorace minus transverso et convexo, grosse et crebre punctato, latcribus minus æqualiter arcuatis, margine posteriore trisinuato, utrinque impresso ; elytris linea suturali punctisque similibus sed fortioribus impressis; pygidio ubique minute rugoso, sat longe rufo-hirto.
Ilab. Huilla (Dr. Welwitsch).
A small species, rather larger than the South-African $P$. Corydon, Oliv., and quite black above. 'The cephalic horn of the male is rather slender and a little compressed laterally, and is represented only by a very slight prominence in the female. The thoracic excavation in the male is very small in our only example of that sex and its posterior margin is not sharply defined.

## Pycnoschema polita, sp. n.

Paulo depressa, rufo-picea rel rufa, supra polita, fero impunctata, subtus fulro-setosa, capite ante oculos utrinque acute angulato. Long. $18-21 \mathrm{~mm}$.
ơ. Capite rugoso-punctato, cornu compresso, ralde currato, armato ; prothorace polito, impunctato, leviter convexo, antice perparum excarato ibique praulo punctato, lateribus arcuatis, haud
angulatis, angulis anticis fere rectis, posticis obtusis, maryine postico trisinuato ; scutello parce subtilissime punctulato; elytris brevibus, politis, prope suturam et latera solum lineis punctorum obsoletorum ; pygidio convexo, crebre punctato.
ㅇ. Capite punctato-rugoso, carina transversa, medio fere angulata munito ; prothorace leviter punctato, punctis dorsi postice fere obsoletis, lateribus medio fere angulatis, margine postico minus simuato; elytris politis, obsolete punctato-striatis; pygidio dense fulro-hirto.

## Hab. Bilhe.

This is a very distinct species owing to the extremely smooth and glossy surface of the prothorax and elytra, espcially in the male. Of the four specimens in our collection the two females are a lighter red colour than the male, but this difference may not be constant. The male, as is usually the case in the genus, is shorter and more parallelsided than the female. It is also almost devoid of punctures upon the thorax and elytra. The thorax is only slightly excavated in front and the hind margin of the cavity is not at all produced or carinated. In the female the sides of the thorax are less uniformly curved, there are punctures which become denser at the front and sides, and the elytra are obsoletely striate-punctate.

All the males in this and the allied genera have the front tarsi thickened and their inner claws strongly hooked and very broad.

The genus Astaborus, which has not hitherto been a:sociated with Pycnoschema and in the Mmich Catalogue is widely separated from it, is really a section in which the thoracic armature has reached its greatest development. As the number of known species increases it may very possibly become inseparable from Pycnoschema. I have identified both sexes of Astaborus Antinorii, Gestro, the female of which has a curved cephatic hom and bitid thonacic process very much as in the male, but the former is less flattened and the latter less produced and very strongly punctured all over. As there can be no donbt that the very nearly related typical species, A. armatus, 'Thoms., has a similar female, the armature of this sex forms the best distinctive character of Astaborus. There is also a slight elongation of the front tibie in the male, a feature which is not found in the known species of Pyonoschema.
M. Raffray seems to have overlooked the existence of the latter genus when he described four species nearly related to its typical forms, which he placed in Astuborus as a new section of that genus. The two specics of Astaborus 1 have
mentioned are the only ones really belonging to it. Of Pycnoschemer seventeen specie; in all are now known, and those remaining to be discovered in all parts of $\Lambda$ frica are no doubt very mumerous.

## Cetoniidæ.

Sisyraphora cicatricosa, 13urm.
Specimens from Ihuilla and Bihe closely allied to the South-African S. tomentosu, G. \& P., appear to belong to Burmeister's Alnoplochilus cicatricosus, which was attributel by him to India, but is referred in the Mmich Catalogue to Senegal. It differs from S. tomentosa in the absence of the pale markings of the upper surface and the existence of smooth longitudinal ridges upon the elytra. The scutellum, however, is not very obtuse, as it is described by Burmeister, and it is rugose except for smooth lateral and median lines.

## Myoderma pusilla, sp. n.

Nigro-picea, vertice prothoraceque nigris, supra glabra, nitida, subtus cum pygidio longe fulvo-hirta; clypeo subquadrato, margine late reflexo, arcuato, medio vix produeto, disco parce punctato; prothorace quam longitudinem paulo latiore, sat regulariter hand erebre punctato, antice emarginato, lateraliter et postice sat regulariter curvato, angulis omnibus obtusis; seutello maguo, punetato; elytris fortiter sed paulo irregulariter striatis, interstitiis convexis, subtilissime sat parce punctulatis, interstitiis $2^{\circ}$ et $4^{\circ}$ angustis, minus elevatis; pygidio valde conveso, antice subtilissime rugoso, postice parce transrersim strigoso et fulvo-hirto.
Long. $10-11 \mathrm{~mm}$.
Hab. Bihe, Pungo Andongo ( $D r$. Ansorge).
'This seems to be an abundant species, as I have seen a considerable number of it. It is smaller than any other described species of the genus, and its glabrous upper surface gives it a very distinctive appearance. It is clothed beneath with very coarse tawny hairs, but above is smooth and shining. The thorax is fairly coarsely but not thickly punctured and the elytra are almost devoid of punctures, only a few very fine ones being traceable upon the broad smooth costr. The clypeus is not pointed, although the broadly turned up margin is slightly wider in the middle than at the sides.

> Diploa tridens, sp. n.

Oblongo-orata, ohesa, fusco-nigra, corpore subtus pygidioque rufic, longe fulvo-hirtis, supra undique creberrime punctato, minute sctoso, clypeo subquadrato, crebre purctat', margine valdo reflexo, medio paulo angulato; prothorace densisime punctato, lateribus sat regulariter arenati-, angulis omnibus obtnsis, margine postico leviter trisinuato; scutello dense punctato; elytris convexis, rage costatis, subtiliter punctato-striatis atgue rugoso-punctatis, lateribus ubique arcuatis; pygidio subtiliter ragoso, longe fulvo-hirto; pedibus piceis, fulro-setosis, tibiis anticis acute tridentatis.
Loug. $1+\cdot 5-1 \overline{1} \cdot 5 \mathrm{~mm}$.
Mab. Bihe, Garenganze.
This form is identical in its general appearance with I). (Ligyromorphus) rufiventris, Arrow, inhabiting Mashonaland, but close examination reveals differences which are very slight but sufficient for their separation. The most easily recognizable is in the armature of the front tibire, which is alike in the two sexes, but constantly differs in the Eastern and Western forms. In D. rufiventris there are two broad and very blunt teeth, and a third is scarcely indicated. In D. tridens there are three well-developed teeth, and all are acutely pointed. 'The sculpture of the upper surface is rather less rugose in the Angola species. The punctures upon the pronotum are coarse and very dense, but are mostly distinct, not completely coalescing as in the Eastern species, and the sculpturing of the elytra is correspondingly rather less indefinite and rugose, producing a rather more shining appearance.

I described this genus as new in 1901, laving overlooked the previous existence of Diploa, which was placed by its author, Herr Kolke, in a different subfamily to the genus Myoderma, with which it is undonbtedly nearly related. I have not seen Diploa proles, Kolbe, but that insect has a bidentate front tibia, and is no doubt very closely allied to D. rufiventris, and possibly identical.
'The genus Xiphoscelis no doubt has some affinity to these forms and should be placed in the 'Trichiine.
XX.-Descriptions of new Mammals from Mount Ruwenzori. By Oldfield 'Thomas.
'lhe first collection sent home by the members of the Ruwenzori Expedition contains examples of the following new species and subspecies. All were collected on Ruwenzori East, at altitudes from $6000^{\prime}$ to $13,0001^{\prime}$.

